

Figure 1

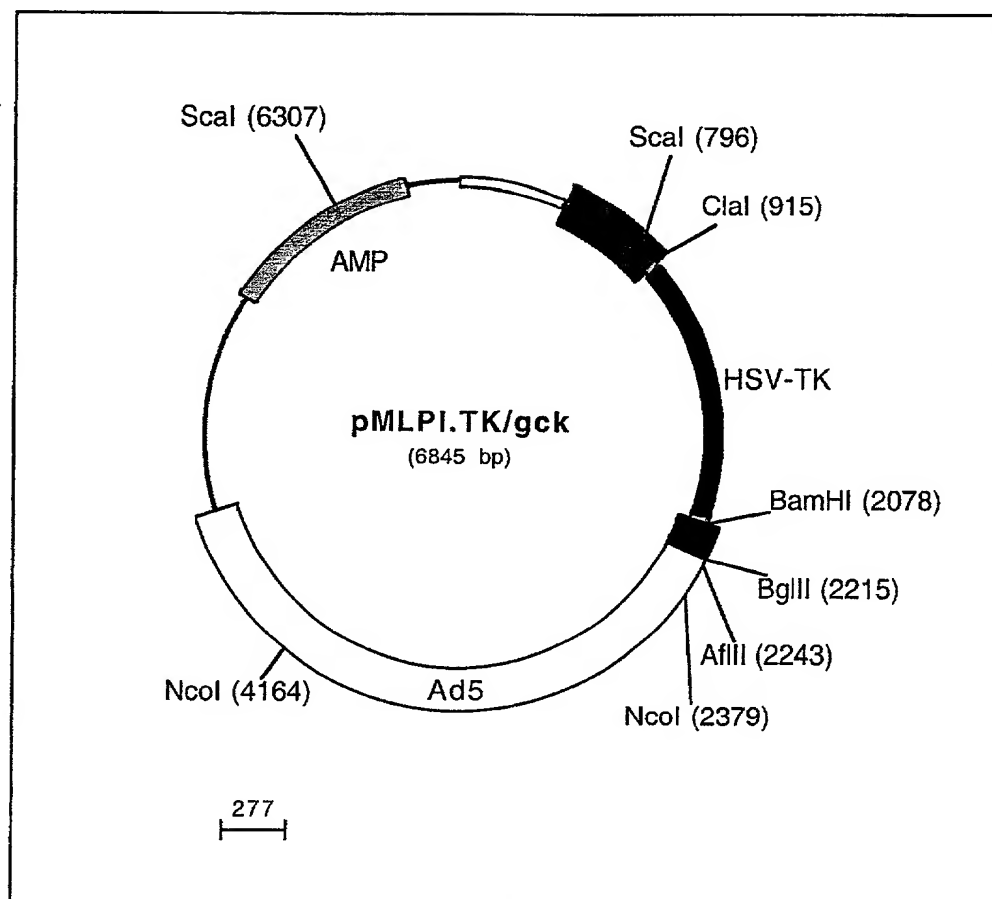


Figure 2

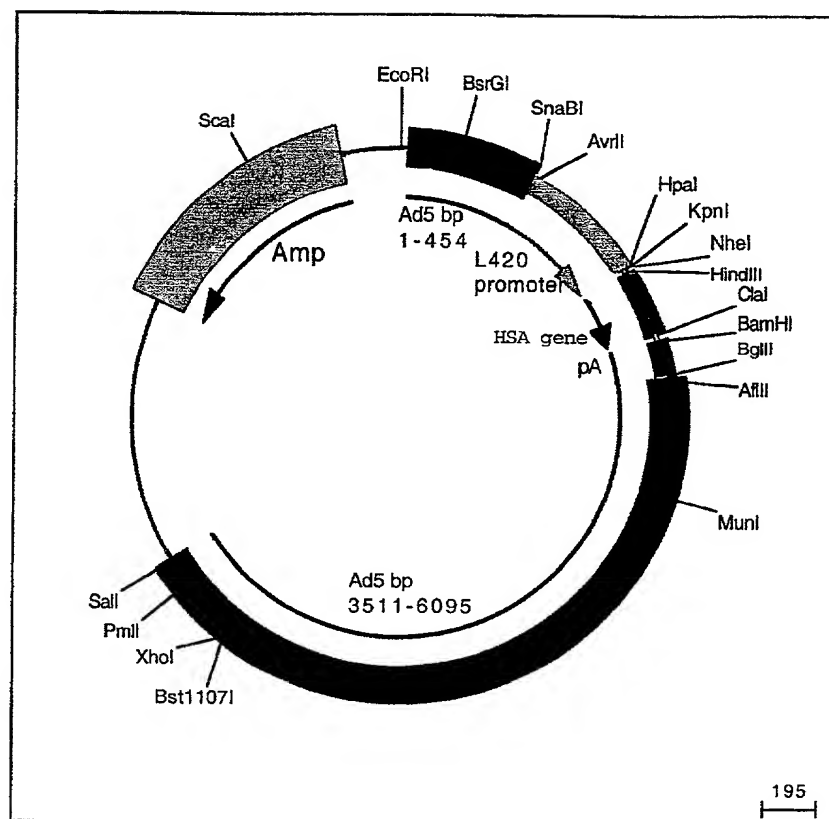


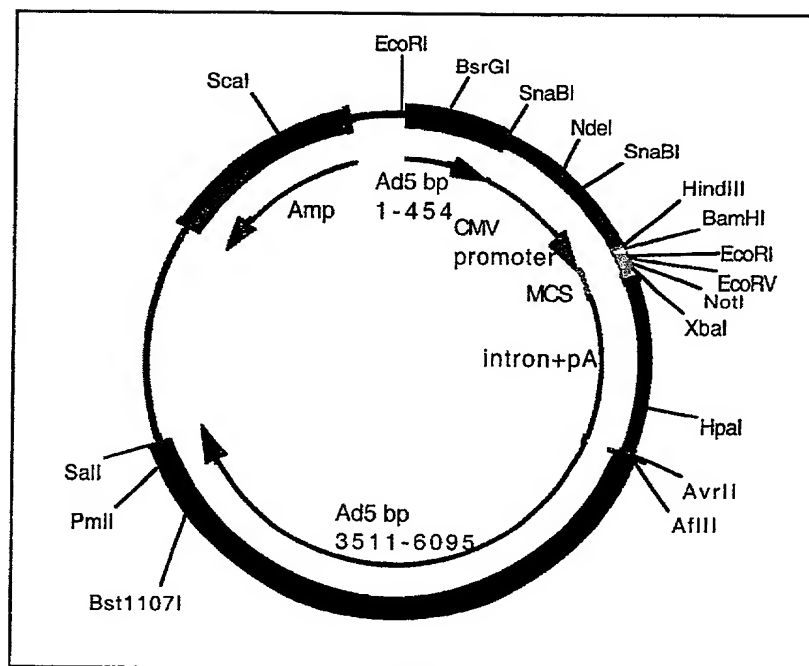
Figure 3

Figure 4

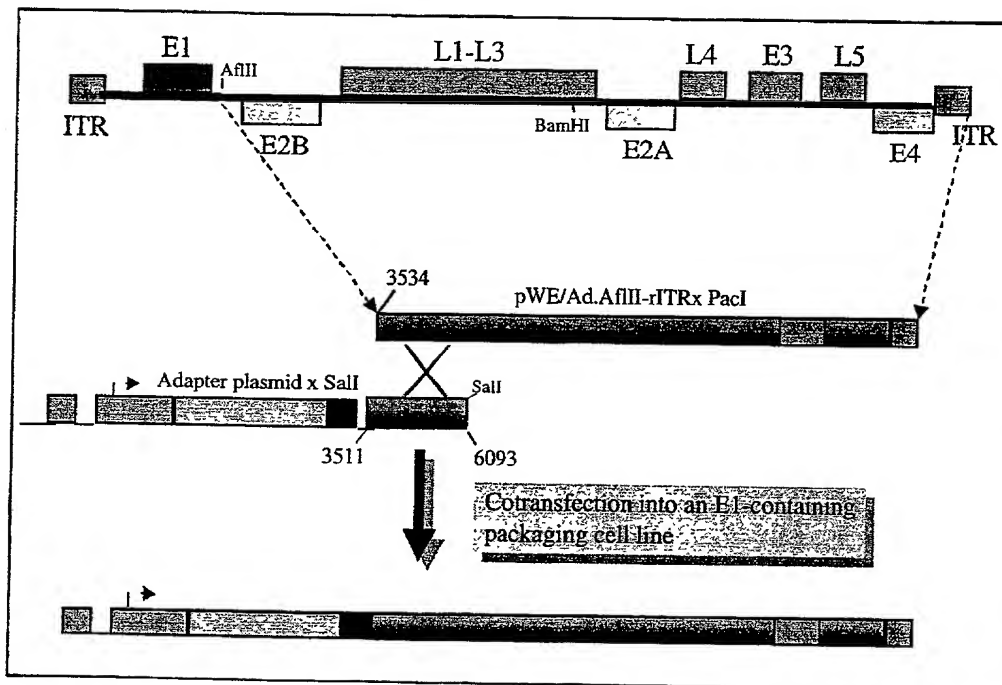


Figure 5

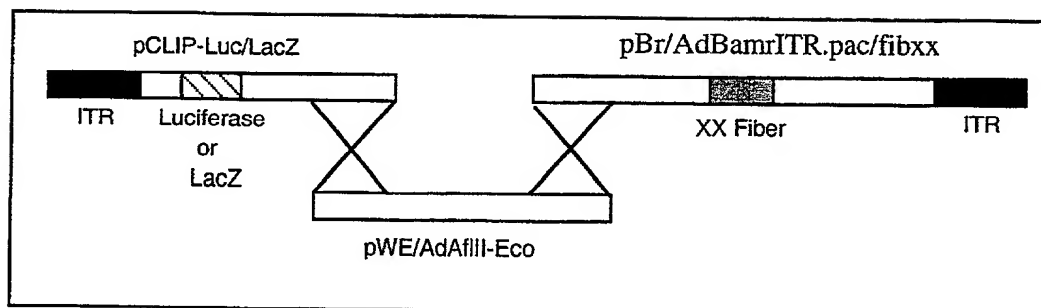


Figure 6

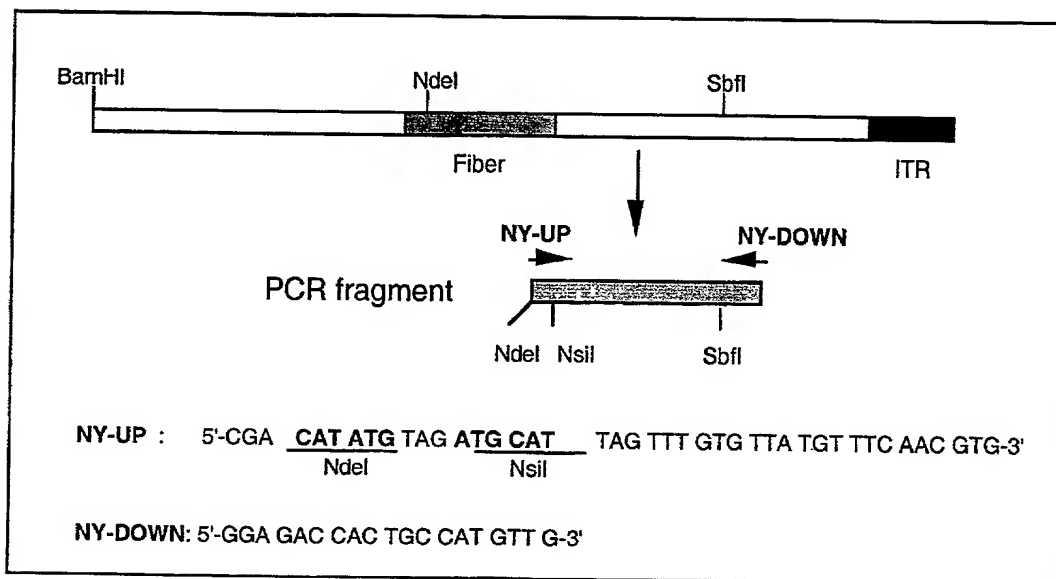


Figure 7:

1.1: Serotype 8 fiber protein

fig 7 sq 1 SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQNIPFLTTPPFVSSNGFQ
 NFPPGVLSLKLADPTINNQNVS LKVG GGLTLQEETGKLTVNTEPPLHLTNNKLG
 ALDAPFDVIDNKLTL LAGHGLSIITKETSTLPGLVNTLVVLTGKGIGTDLSNNGGN
 ICVRVGE GGLSFNDNGDLVAFNKKEDKRTLWTPDTS PNCRIDQDKSKLTLV 377
 LTKCGSQILANVSLIVVAGRYKIINNNTNPALKGFTIKLLFDKNGVLMESSNLGKS
 YWNFRNQNSIMSTAYEKAIGFMPNLVAYPKPTTGSKKYARDIVYGN IYLGKPH
 QPVTIKTTFNQETGCEYSITFDFSWAKTYVNVEFETTSFTFSYIAQE. {wat af }

1.2: Serotype 9 fiber protein

fig 7 sq 2 SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQNIPFLTTPPFVSSDGFQ
 NFPPGVLSLKLADPIAVNGNVSLKVG GGLTLQDGTGKLTVNADPPLQLTNNKL
 GIALDAPFDVIDNKLTL LAGHGLSIITKETSTLPGLINTLVVLTGKGIGTESTDNGG 377
 SVCVRVGE GGLSFNDNGDLVAFNKKEDKRTLWTPDTS PNCRIDQDKSKLTL
 VLTGCGSQILANVSLIVVAGRYKIINNNTNPALKGFTIKLLFDKNGVLMESSNLGK
 SYWNFRNQNSIMSTAYEKAIGFMPNLVAYPKPTAGSKKYARDIVYGN IYLGKPH
 DQPVTIKTTFNQETGCEYSITFDFSWAKTYVNVEFETTSFTFSYIAQE. {wat af }

1.3: Serotype 13 fiber protein

fig 7 sq 3 XXXXXSAPTIFMLLQMKRARSXDTFNPVYPYGYARNQNI XFXTPPFVXSDGF
 KNPPGVLSLKLADPTIANGDVSLKVG GGLTLQEGSLTVDPAKPLQLANDKKLE
 LVYDDPFEVSTNKL SLKVGHGLKVLDDKSAGGLKDLIGKLVVLTGKGIGIENLQ
 NDDGSSRGVGINVRLGTDGGLSFDRKGELVAWNRKDDRRTLWTPDPSPNCKA 391
 ETEKDSKLTLVLTGCGSQILATVSIIVLKGKYE FVKKETEPKSFVDVKLLFDSKGV
 LPTS NLSKEYWNYRSYDNNIGTPYENAVPFMPNLKAYPKPTKTASDKAENKISS
 AKNKIVSNFYFGGQAYQPGTIINKFNEEIDETCAYSITFNFVGWGVYDNPFPDTS
 FTXSYIAQE. (0 niel)

1.4: Serotype 14 fiber protein

fig 7 sq 4 HPFINPGFISPNQFTQSPDGVLT LKCLTPLTTGGSLQLKVG GGLTVDDTDGTLQE
 NIGATTPLVKTGHSIGLSLGAGLGTDENKLC TKLGEGLTFNSNNICDDNINTLWT
 GVNPT EANCQMMDSSSENDC KLLTLVKTGALVTA FVYVIGVSNNFNMLT TYRN 291
 INF TAELFFDSAGNLLTSLSLK TPLNHKSGQTWLLVPLLMLKVSCPAQLLILS IIL
 EKNKTTFTELVTTQLVTLLFPLTISVMLNQRAIRADTSY CIRITWSWNTGDAPEG
 QTSATTLVTS

1.5: Serotype 20 fiber protein

fig 7 sq 5 IQNIPFLTTPPFVSSDGLQNFP PGVLSLKLADPIAVNGNVSLKVG GGLTVEQDSGQL
 IANPKAPLQVANDKLELSYAYPFETSANKLSLKV GQGLKVLDEKDSGGLQNLIG 345
 KLVVLTGKGIGVEELKNPDNTNRGVGINVRLGKD GGLSFNKNKELVAWNKHND

Figure 7 cont.

TGTLWTTDPSPNCKIEEVKDSKLT VLT KCGSQILATMAFQVVKGT YENISKNT
AKNSFSIKLLFDDNGKLLLEGSSLDKDYWNFRSDDSIIPNQYDNAVPFMPNLKAYP
KPSTVLPSTDKNSNGKNTIVSNLYLEGKAYQPVAITITFNKEIGCTYSITFDGWA
KTYDVPPIFDSSSFT

1.6: Serotype 23 fiber protein

QNIPFLTTPPFVSSDGFQNFPPGVLSLKLADPIAITNGDVSLKVGGGLTVEQDSGNL
KVNTKAPLQVAADKQLEIALADPFVSKGRLGIKAGHGLKVIDNSISGLEGLVGT
LVVLTGHGIGTENLLNNDGSSRGVGINVRLGKDGGLSFDKKGDLVAWNKKYDT
RTLWTTDPSPNCKVIEAKDSKLT VLT KCGSQILANMSLLILKGT YEYISNAIAN
KSFTIKLLFNDKGVLMDGSSLDKDYWNYSDDSVMSKAYENAVPFMPNLKAYP
NPTTSTTNPSTDKKSNGKNAIVSNVYLEGRAYQPVAITITFNKETGCTYSMTFDF
GWSKVYNDPIPFDTSSLT

1.7: Serotype 24 fiber protein

SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQNIPFLTTPPFVSSDGFQ
NFPPGVLSLKLADPIAITNGDVSLKVGGGLTVEKDSGNLKVNPAPLQVTTDKQL
EIALAYPFVSNGLGIKAGHGLKVIDKIAGLEGLAGTLVVLTKGIGTENLENS
DGSSRGVGINVRLAKDGGLSFDKKGDLVAWNKHDDRRTLWTTDPSPNCTIDQ
ERDSKLT VLT KCGSQILANVSLVVKGKFSNINNTNPTDKKITVKLLFNEKGV
LMDSSTLKKEYWNYRNDNSTVSQAYDNAVPFMPNIKAYPKPTTDTSAKPEDKK
SAAKRYIVSNVYIGGLPDKTVITIKFNAETECAYSITFEFTWAKTFEDVQFDSSSF
TFSYIAQE.

1.8: Serotype 25 fiber protein

SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQNIPFLTTPPFVSSDGFQ
NFPPGVLSLKLADPITISNGDVSLKVGGGLTVEQDSGNLSVNPAPLQVGTDKKL
ELALAPPFNVKDNKLDLLVGDGLKVIDKSISXLPGLLNLYLVLTGKGIGNEELKN
DDGSNKGVLGVRIGEGGGLTFDDKGYLVAWNKKHDIRTLWTTLDPSNCRID
VDKDSKLT VLT KCGSQILANVSLVVKGRFQNLNYKTNPNLPKTFTIKLLFDEN
GILKDSNLDKNYWNRYRNGNSILAEQYKNAVGFMPNLAAYPKSTTTQSKLYAR
NTIFGNIYLDQAYNPVVIKITFNQEADSAYSTILNYSWGKDYENIPFDS

1.9: Serotype 27 fiber protein

IPFLTTPPFVSSDGFKNFPPGVLSLKLADPITITNGDVSLKVGGGLVVEKESGKLSV
DPKTPQLQVADNKLKLSYNAPFKVENDKLSLDVGHGLKVIGNEVSSLPGLINKLV
VLTGKGIGTEELKEQNSDKIIGVINVRARGGLSFDNDGYLVAWNPKYDTRLW
TTPDTSPNCKMLTKKDSKLT VLT KCGSQILGNVSLAVSGKYLNMTKDETGVKI
ILLFDRNGVLMQESSLDKEYWNYRNDNNVIGTPYENAVGFMPNLVAYPKPTSA
DAKNYSRSKIISNVYLKGLIYQPVIIASFNQETTINGCVYSISFDFTCSKDYTGQQF
DVTSTF

1.10: Serotype 28 fiber protein

SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQNIPFLTTPPFVSSDGFQ
NFPPGVLSLKLADPITIANGDVSLKGGGLTVEKESGNLTVNPAPLQVASGLE
LAYYSFPDVKNNMLTLKAGHGLAVVTKDNTDLQPLMGTLLVLTGKGIGTGTS

Figure 7 cont.

HGGTIDVRIGKNGSLAFDKNGLVAWDKENDRRTLWTTPTDSPNCKMSEVKDS
 KLTILTKCGSQILGSVSLAVKGEYQNMSTASTNKNVKITLLFDANGVLLEGSSL
 DKEYWNRNNDSTVSGKYENAVPFMPNITAYKPVNSKSYARSHIFGNVYIDAKP
 YNPVVIKISFNQETQNNCVYSISFDYTCSKEYTGMQFDVTSFTFSYIAQE.

1.11: Serotype 29 fiber protein

QNIPFLTTPFVSSDGFKNFPPGVLSKLADPIAITNGDVSLKVGGLTVEQDSGNL
 SVNPKAPLQVGTDKKLELALAPPFDVRDNKLAILVGDGLKVIDRSISDLPGLLNY
 LVVLTGKGIGNEELKNDDGSNGVGLCVRIGEGGGLTFDDKGYLVAWNNKHDI
 RTLWTTLDPSNCKIDIEKDSKLTVLTKCGSQILANVSLIIVNGKFKILNNKTDPS
 LPKSFNIKLLFDQNGVLLSENSNIEKQYLNFRSGDSILPEPYKNAIGFMPNLLAYAK
 ATTDQSKIYARNITIYGNITLDNQPNPVVIKITFNNEADSAYSITFNYSWTKDYD
 NIPFDSTSFTS

1.12: Serotype 30 fiber protein

SCSCPSAPTIFMLLQMKRARPSXDTFNPVYPYGYARNQNIPFXTPPFVXSDGFK
 NFPPGVLSKLADPIAITNGDVSLKVGGLTVEQDSGNLSVNKKAPLQVGTDKK
 LELALAPPFDVRDNKLAILVGDGLKVIDRSISDLPGLLNYLVVXTGKGIGNEELK
 NDDGSNGVGLCVRIGEGGGLTXDDKGYLVAWNNKHDIRTLWTTLDPSNCKI
 DIEKDSKLTVLTKCGSQILANVSLIIVNGKFKILNNKTDPSLPKSFNIKLLFDQNG
 VLLSENSNIEKQYLNFRSGDSILPEPYKNAIGFMPNLLAYAKATTDQSKIYARNITIY
 GNTYLDNQPNPVVIKITFNNEADSAYSITFNYSWTKDYDNIPFDSTSFTFSYIAQE

1.13: Serotype 32 fiber protein

SCSCPSAPTIFMLLQMKRARPSXDTFNPVYPYGYARNQNIPFLTTPFVSSDGFQ
 NFPPGVLSKLADPIAITANGNVSLKVGGLTLEQDSGKLIVNPKAPLQVANDKLE
 LSYADPFETSANKLSLKVGHLKVLDEKNAGGLKDLIGTLVVLTGKGIGVEELK
 NADNTNRGVGINVRLGKDGGLSFDKKGDLVAWNNKHDDRRRTLWTTDPSPNCTI
 DEERDSKLTVLTKCGSQILANVSLVVGKGFNNNNNTNPTDKKITVKLLFNEK
 GVLMDSSSLKKEYWNYRNDNSTVSQAYDNAVPFMPNIKAYPKPTTDTSAKPED
 KKSAAKRYIVSNVYIGGLPDKTVVITIKLNAETESAYSMTFEFTWAKTFENLQFD
 SSSFTFSYIAQE.

1.14: Serotype 33 fiber protein

SCSCPSAPTIFMLLQMKRARPSXDTFNPVYPYGYARNQNIPFLTTPFVSSDGFK
 NFPPGVLSKLADPITITNGDVSLKVGGLTLQEGSLTVNPKAPLQLANDKKLEL
 VYDDPFEVSTNKLKLVGHGLKVLDDKSAGGLQDLIGKLVVLTGKGIGIENLQN
 DDGSSRGVGINVRLGTDGGLSFDKRGELVAWNRKDDRRRTLWTTDPSPNCKAE
 TEKDSKLTVLTKCGSQILATVSIIVLKGKYEYFVKETEPKSFVVKLLFDSKGVLL
 PTSNLSKEYWNYRSDNNIGTPYENAVPFMPNLKAYPKPTKTASDKAENKISSA
 KNKIVSNFYFGGQAYQPGTIIKFNEDIDETCAYSITFNFGWGKVYDNPFPDTSFTS
 TFSYIAQE.

1.15: Serotype 34 fiber protein

Figure 7 cont.

fig 7 sq 15 SCSCPSAPTIFMLLQMKRARPS^{under}EDTFNPVYPYED^{varstakej}ESTSQHPFINPGFISPN³³⁸GFTQ
SPDGVLT¹⁵KLCLPLTTTGGSLQLKVGGGLTVDDTDGTLQKNIRATTPITKNNHSV
ELTIGNGLE¹⁵TQHNLCAKLGNGLKFNNGDICIKDSINTLWTGINPPPCQIVENTN
LTDES¹⁵DLKIPLKNKSSTATSETVASSKAFMPSTTAYPFNTTTRDSENYIHGICYM
TSYDRSLFPLNISIMLNSRMISSNVAYAIQFEWNLNASESPEKQHMTLTSPFFFSY
IIEDDN.

1.16: Serotype 35 fiber protein
fig 7 sq 16 SCSCPSAPTIFMLLQMKRARPS^{under}EDTFNPVYPYED^{varstakej}ESTSQHPFINPGFISPN³³⁸GFTQ
SPDGVLT¹⁶KLCLPLTTTGGSLQLKVGGGLTVDDTDGTLQENIRATAPITKNNHSV
ELSIGNGLE¹⁶TQNNKLCAKLGNGLKFNNGDICIKDSINTLWTGINPPPCQIVENTN
TNDGKLT¹⁶VLVKN¹⁶GGLVNGYVSLVGVS¹⁶DTVNQMFTQKTANIQRLRYFDSSGNL
LTD¹⁶ESDLKIPLKNKSSTATSETVASSKAFMPSTTAYPFNTTTRDSENYIHGICYM
TSYDRSLFPLNISIMLNSRMISSNVAYAIQFEWNLNASESPESNIMTLTSPFFFSY
TEDDN.

1.17 Serotype 36 fiber protein
fig 7 sq 17 SCSCPSAPTIFMLLQMKRARPS^{under}EDTFNPVYPYGYARNQNI³⁹²PFLTPPFVSSDGFK
NFPPGVLSLKLADPIAVNGDVSLKVGGGLTVEQDSGKLKVNPKIPLQVVNDQLE
LATDKPFKIENNKALDVGHG¹⁷LKVIDKTISDLQGLVGKLVVLTGVGIGTETLKDK
NDKVIGSAVNVRLGKDGGLDFNKKGDLVAWNRYDDRRTLWTT¹⁷PDSPNCKVS
EAKDSKLT¹⁷VLTKCGSQLASVALLIVKGKYQTISESTIPK¹⁷DQRNFSVKLMFDEKG
KLLDKSSLDKEYWNFRSND¹⁷SVVGTA¹⁷YDNAVPFMPNLKAYPKNTTSS¹⁷TNPDDKI
SAGKKNIVSNVYLEGRVYQPVALT¹⁷VKFENSEDCAYSITFDFVWSKTYESP¹⁷VAFD
SSSFTFSYIAQE.

1.18 Serotype 37 fiber protein ^{under}varstakej
fig 7 sq 18 SCSCPSAPTIFMLLQMKRARPS^{under}EDTFNPVYPYGYARNQNI³⁸⁰PFLTPPFVSSDGFK
NFPPGVLSLKLADPITITNGDVSLKVGGGLTLQDGS¹⁸LTVPKAPLQVNTDKKLEL
AYDNPFESSANKLSLKVG¹⁸HGLKVLDEKSAAGLKDLIGKLVVLTGKGIGTENLEN
TDGSSRGIGINVRAREGLTFDNDGYLVAWNPKYDLRTLWTT¹⁸PDSPNCTIAQDK
DSKLT¹⁸VLTKCGSQLANVSLIVVAGKYHIINNKTNPKIKSFTIKLLFNKNGVLLD
NSNLGKAYWNFRSGNSNVSTAYEKAIGFMPNLVAVSKPSNSKKYARDIVYGN¹⁸Y
LGGKPDQPGVIKTTFNQETGCEYSITFNFSWSKTYENVEFETTSFTFSYIAQE.

1.19 Serotype 38 fiber protein
fig 7 sq 19 SCSCPSAPTIFMLLQMKRARPS^{under}EDTFNPVYPYGYARNQNI³⁹¹PFXTPPFVXSDGFQ
NFPPGVLSLKLADPITIANGNVSLKVGGGLTLEQDSGKLIVNXXKAPLQVANDKLE
LSYADPFETSANKLSLKVG¹⁹HGLKVLDEKNAGGLKDLIGTLVVLTGKGIGVEELK
NADNTN¹⁹RGVGINVRLGKDGGLSFDKKGD¹⁹XVAWNKHDDRRTLWTT¹⁹PDSPNCTI
DEERDSKLT¹⁹VLTKCGSQLANVSLVVKGKFSNINNNTNPTDKKITVKLLFNEK
GVLMDSSSLKKEYWNYRNDNSTVSQAYDNAVPFMPNIKAYPKPTTDTSAKPED
KKSAAKRYIVSNVYIGGLPDKTVVITIKLNAETESAYSMTTEFTWAKTFENLQFD
SSSFTFSYIAQE.

Figure 7 cont.

1.20 Serotype 39 fiber protein

IRISPSSLPPLSPPMDSKTSPLGCIHSNWLTQSPSPMGMSHSRWEGGSPWQEGTG
 DLKVNKSPQLQVATNKQLEIALAKPFEEKDGKLALKIGHGLAVVDENHHTLQSL
 IGTLVILTGKGIGTGRAESGGTIDVRLSGGGGLSFDKDGNLVAWNKDDDRRTLW
 TTPDPSPNCKIDQDKDSKLTFLTKCGSQILANMSLLVVKGKFSMINNKVNGTD
 DYKFKFTIKLLFDEKGVLLKDSSLDKEYWNYRSNNNNVGSAYEEAVGFMPSTTA
 YPKPPTPTNPTTTPLEKSQAKNKYVSNVYLGQAGNPVATTVSFNKETGCTYSIT
 FDFAWNKTyenVQC.

339

1.21: Serotype 42 fiber protein

SCSCPSAPTIFMLLQMKRARPSEDTFNPVYPYGYARNQNIPFLTPPFVSSDGFK
 NFPFGVLSLKLANPIAITNGDVSLKVGGLTLQDGTGKLTIDTKTQLQVANNKLE
 LAFDAPLYEKNKGLALKTGHGLAVLTKDIGPELIGSLVILTGKGIGTGTVAGGGT
 IDVRLGDDGGLSFDKKGDLVAWNKKNDRRTLWTTPDPSPNCRVSEDKDSKLTIL
 LTKCGSQILASFLLVVGTYTTVDKNTTNKQFSIKLLFDANGKLKSESNLSGYW
 NYRSDNSVVSTPYDNAVPFMPNTTAYPKIINSTTDPENKKSSAKKTVGNVYLEG
 NAGQPVAVAISFNKETITADYSITDFAWSKAYETPVFDTSSMTFSYIAQE.

330

1.22: Serotype 43 fiber protein

NIPXLTPPFVSSDGFKNFPFGVLSLKLADPITTINGDVSLKVGGLTVEKESGNLT
 VNPKAPLQVAKGQLELAYDSPFDVKNMMLTLKAGHGLAVVTKDNTDLQPLMG
 TLVVLTGKGIGTGTSAHGGTIDVRIGKNGSLAFDKDGDLVAWDKENDRRTLWT
 TPDTSFNCKMSEAKDSKLTILTKCGSQILGSVLLAVKGEYQNMNTANTKKNVKI
 TLLFDANGVLLAGSSXXKEYWNFRSNDSTVSGNYENAVQFMPNITAYKPTNSKS
 YARSVIFGNVYIDAKPYNPVVVKISFNQETQNNCVYSISFDYTLKDYPMQFDV
 TLS

328

1.23: Serotype 44 fiber protein

NIPFLTPPFVSSDGFNFPFGVLSLKLADPITTINGNVSLKVGGLTLQEGTGDLK
 VNAKSPQLQVATNKQLEIALAKPFEEKDGKLALKIGHGLAVVDENHHTLQSLIGTL
 VILTGKGIGTGSAESGGTIDVRLSGGGGLSFDKDGNLVAWNKDDDRRTLWTTPD
 PSPNCKIDQDKDSKLTFLTKCGSQILANMSLLVVKGKFSMINNKVNGTDYKFK
 FTIKLLFDEKGVLLKDSSLDKEYWNYRSNNNNVGSAYEEAVGFMPSTTAYPKPP
 TPTNPTTTPLEKSQAKNKYVSNVYLGQAGNPVATTVSFNKETGCTYSITDFA
 WNKTyenVQFDSSF

341

1.24: Serotype 45 fiber protein

NIPFLTPPFVSSDGFNFPFGVLSLKLADPIAITNGDVSLKVGGLTVEKDSGNLK
 VNPKAPLQVTTDKQLEIALAYPFVSNKGLGKAGHGLKVIDKIAGLEGLAGTLV
 VLTGKGIGTENLENSDGSSRGVGINVRLAKDGVLAFDKKGDLVAWNKHDDRRRT
 LWTTDPSPNCTIDQERDSKLTFLTKCGSQILANVSLVVKGKFSNINNNANPT
 DKKITVKKLFNEKGVLMDSSTLKKEYWNYRNDNSTVSQAYDNAVPFMPNIKAY
 PKPSTDTSAKPEDKKSAAKRYIVSNVYIGGLPDKTVITIKFNAETECAYSITFEFT
 WAKTFEDVQCDSSST

345

1.25: Serotype 46 fiber protein

Figure 7 cont.

NIPFLTPPFVSSDGFKNFPPGVLSLKLADPIAIVNGDVSLKVGGLTLQEGNLTVD
 AKAPLQVANDNKLELSYADPFVKDTKLQLKVGHGLKVIDEKTSSGLQSLIGNL
 VVLTKGIGTQELKDKDDETKNIGVGINVRIGKNESLAFDKDGNLVAWDNENDR
 RTLWTTPTDTSKFKISTEKDSKLTLLVTKCGSQILASVSLAVAGSYLNMTAST
 QKSIKVSMLMFDKGLMTTSSIDKGYWNYRNKNSVVGTA YENAI PFMPLVAYP
 RPNTPD SKIYARSKIVGNVYLAGLAYQPIVITVSFNQEKDASCAYSITFEFAWNKD
 YVGQFDTTSTF

1.26 Serotype 47 fiber protein

SCSPAPTIFMLLQMKRARSEDTFNPVYPYGYARNQ NIPFLTPPFVSSDGFKNF
 PPGVLSLKLADPITITNGDVSLKVGGLTLQEGTGNLT VNAKAPLQVADDDKLE
 LSYDNPFEVSANKLSLKVGHGLKVLDEKNSGGLQELIGKL VILTKGIGVEELKN
 ADNTNRGVGINVRLGKDGGLSFDKKGELVAWNKHNDRTLWTTDPSPNCKIE
 QDKDSKLTLLVTKCGSQILATMAFQVVKGT YENISKNTAKKSFSIKLLFDDNGKL
 LEGSSLDKDYWNFRNDDSIMPNQYDNA VPFMPNLKAYPNPKTSTVLPSTDKKS
 N GKNITVSNLYLEGKAYQPVA VTTTFNKETGCTYSITFEFGWAKTYDVPFDFSSSF
 TFSYIAQE.

1.27: Serotype 48 fiber protein

SDIPFLTPPFVSSDGFQNFPPGVLSLKLADPITITNGNVSLKVGGLTLQEGTGLK
 VNAKSPLQVATNKQLEIALAKPFEEKDGKLALKIGHELAVVDENLTHLQSLIGTL
 VILTKGIGTGRAESGGTIDVRLGSGGGLSFDKDGNLVAWNKDDDRRTLWTTDP
 PSPNCKIDQDKDSKLTFLVTKCGSQILANMSLLVVKGFMSMINNKVNGTDDYKK
 FTIKLLFDEKGVLLKDSSLDKEYWNYRSNNNNVGSAYEEAVGFMPSTTAYPKPP
 TPPTNPTTLEKSQAKNKYVSNVYLGGAQGNPVATTVSFNKETGCTYSITFDFA
 WNKTYKMAFIPRFNF

1.28: Serotype 49 fiber protein

SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYGYARNQ NIPFLTPPFVSSDGFQ
 NFPPGVLSLKLADPIATITNGNVSLKVGGLTVEQDSGNLKVNPAPLQVATDNQ
 LEISLADPFVKNNKLSLKVGHGLKVIDENISTLQGLLGNLVVL TGMGIGTEELK
 KDDKIVGSAVNVRLQDGGGLTFDKKGD LVAWNKENDRRRTLWTTDPSPNCKVS
 EEKDSKLTLLVTKCGSQILASVSLLVVKGFANINNKTNPGE DYKXFSVKLLFDA
 NGKLLTGSSLDGNYWNYKNKDSVIGSPYENAVPFMPNSTAYPKIINNGTANPED
 KKSAAKKTIVTNVYLGDAAKPVATTISFNKETESNCVYSITFDFAWNKTYKNV
 PFDSSSLTFSYIAQE.

1.29.: Serotype 51 Fiber protein

SCSCPSAPTIFMLLQMKRARSEDTFNPVYPYEDESTSQHPFINPGFISPNGFTQ
 SPDGVLTNLCLTPLTTTGGPLQLKVGGLIVDDTDGTLQENIRVTAPITKNNHVS
 ELSINGLETQNNKLCAKLGNGLKFNNGDICIKDSINTLWTGKPPPNQIVENTD
 TNDGKLTLLVKNGLLVNGYVSLVGVSDTVNQMFQKSATIQRLRYFDSSGNLL
 TDESNLKIPLKNKSSATSEAATSSKAFMPSTTAYPFNTTTRDSENYIHGICYMT
 SYDRSLVPLNISIMLNSRTISSNVAYAIQFEWNLNAKESPESENIA TLTTSPFFFSYIIE
 DTTKISLCYVSTCLFFN

Figure 8:

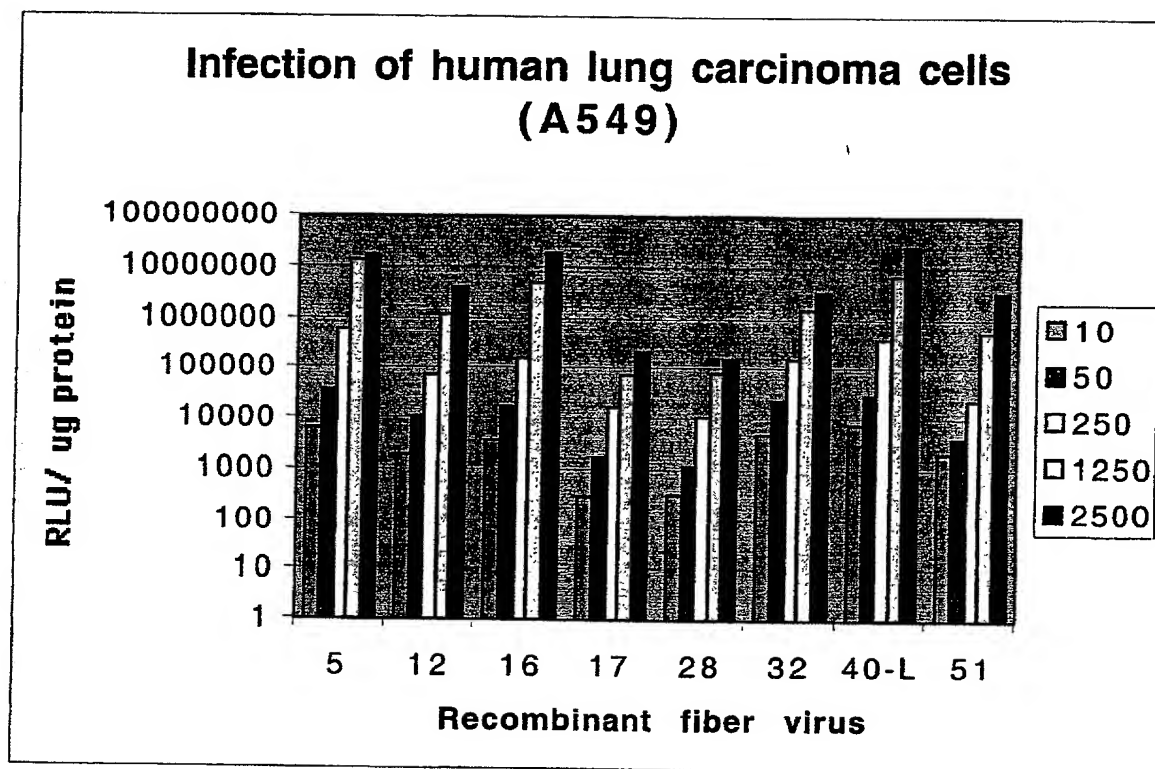


Figure 9

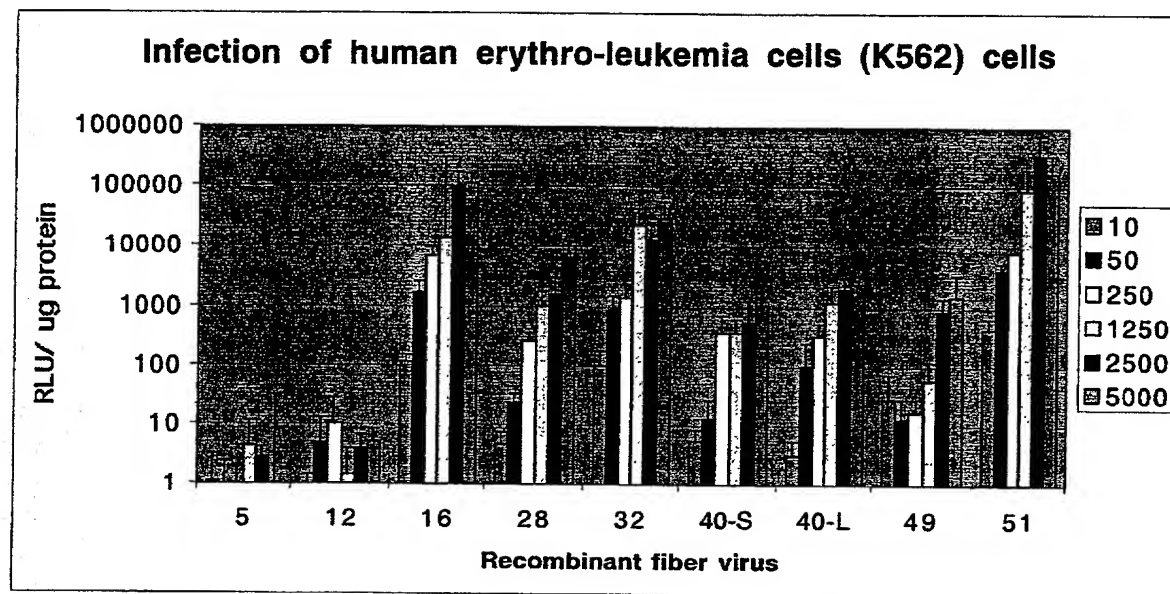


Figure 10

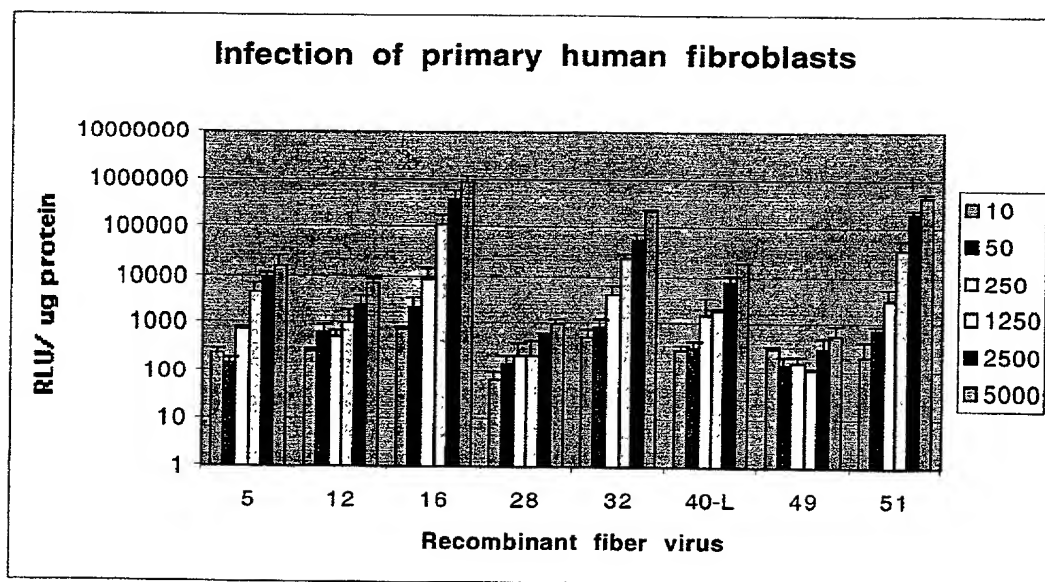


Figure 11

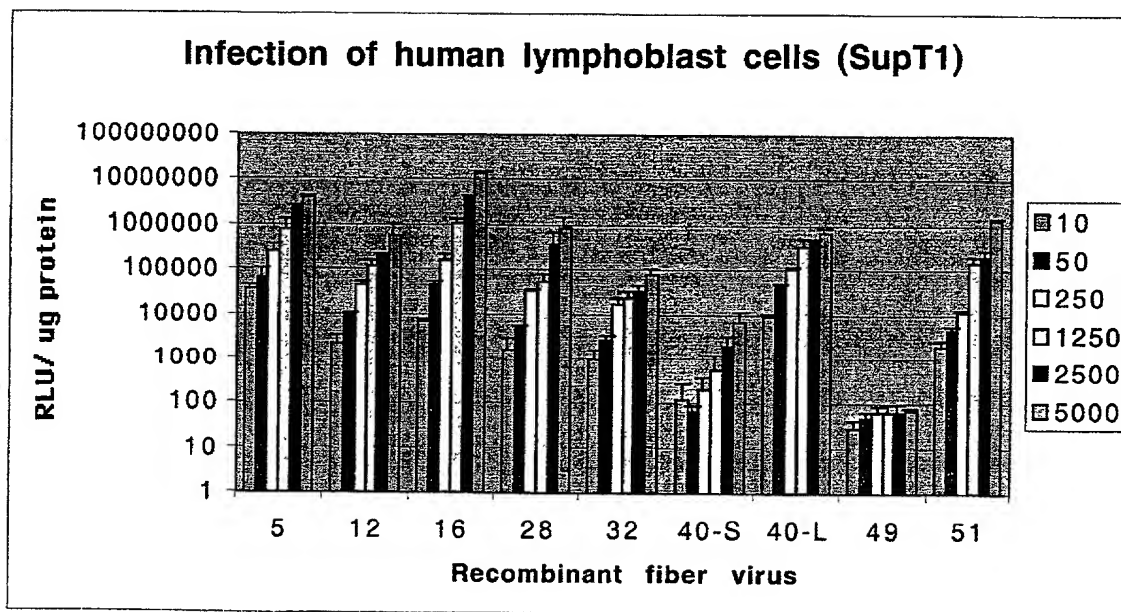


Figure 12

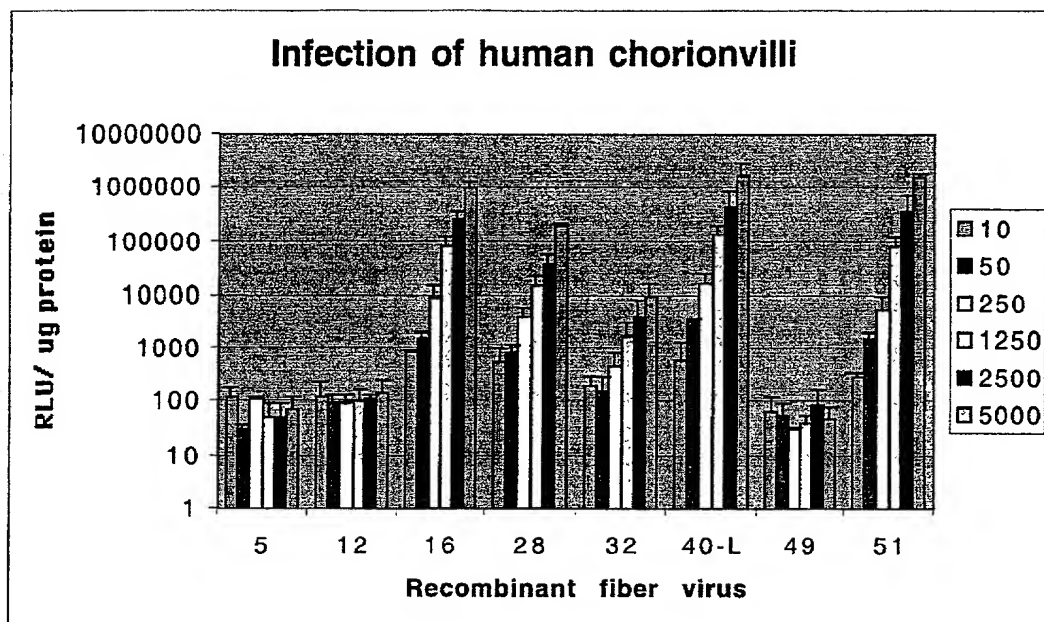


Figure 13

